Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Covalent Compounds Practice Problems**

**Write the names for the following covalent compounds.**

1. P4S5­ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. CO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. SeF6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Si2Br­6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. SCl4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. CH4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. B2Si \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. NF3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. N2O3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. S2F10 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write the formulas for the following covalent compounds.**

1. Phosphorus dibromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Hexaboron monosilicide \_\_\_\_\_\_\_\_\_\_\_\_\_
3. Chlorine dioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Nitrogen triiodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Hydrogen monoiodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Diboron trisulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Iodine pentafluoride \_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Dinitrogen tetraoxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pentaboron nonahydride \_\_\_\_\_\_\_\_\_\_\_\_
10. Dinitrogen trioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Nitrogen trihydride (ammonia) \_\_\_\_\_\_\_\_
12. Phosphorus triiodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Match the compound with the correct name.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_ Carbon Dioxide 2. \_\_\_\_\_\_\_\_\_ Carbon Monoxide 3. \_\_\_\_\_\_\_\_\_ Sulfur Triflouride 4. \_\_\_\_\_\_\_\_\_ Nitrogen Tribromide 5. \_\_\_\_\_\_\_\_\_ Nitrogen Monoflouride 6. \_\_\_\_\_\_\_\_\_ Diphosphorous monoxide 7. \_\_\_\_\_\_\_\_\_ Nitrogen Triiodide 8. \_\_\_\_\_\_\_\_\_ Nitrogen Trihydride 9. \_\_\_\_\_\_\_\_ Dinitrogen Monohydride 10. \_\_\_\_\_\_\_\_ Dicarbon Dihydride 11. \_\_\_\_\_\_\_\_ Sulfur Dioxide 12. \_\_\_\_\_\_\_\_\_ Dihydrogen Dioxide 13. \_\_\_\_\_\_\_\_ Hydrogen moniodide 14. \_\_\_\_\_\_\_\_ Sulfur Trioxide | 1. NH3 2. CO 3. NBr3 4. P2O 5. NI3 6. SO3 7. CO2 8. SF3 9. NF 10. SO2 11. H2O2 12. N2H 13. C2H2 14. HI |

**Covalent Nomenclature**

**Write the correct name for:**

1. As4O10\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. BrO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. BN \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. N2O3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. NI3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. SF6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. PCl3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. CO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. PCl5 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. P2O5 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. S2Cl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. SO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write the correct chemical formula for:**

1. Carbon tetrafluoride \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Dinitrogen trisulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Phosphorus mononitride \_\_\_\_\_\_\_\_\_\_
4. Carbon disulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Nitrogen trichloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Silicon tetrabromide \_\_\_\_\_\_\_\_\_\_\_\_\_
7. Nitrogen trifluoride \_\_\_\_\_\_\_\_\_\_\_\_
8. Boron trisulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Sulphur trioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Selenium tetrafluoride \_\_\_\_\_\_\_\_\_\_\_
11. Diphosphorus pentasulfide \_\_\_\_\_\_\_
12. Xenon pentafluoride \_\_\_\_\_\_\_\_\_\_\_\_